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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

7

Complete if Known	
Application Number	10/667,133
Filing Date	September 19, 2003
First Named Inventor	Johnson, Howard M.
Art Unit	1646 1647
Examiner Name	Sehara Leyon, J.
Attorney Docket Number	UF-243XD1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SS	U1	US-5,906,286	05/25/1999	Soos et al.	All
SS	U2	US-5,939,286	08/17/1999	Johnson et al.	All
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TS	F1	WO 99/20653	04/29/1999	Pepgen Corporation	All
	F2	WO 97/39127	10/23/1997	University of Florida	All
	F3	WO 97/33607	09/18/1997	Pepgen Corporation	All
	F4	WO 96/28183	09/19/1996	Pepgen Corporation	All
	F5	WO 94/10313	05/11/1994	University of Florida	All
	F7				

Examiner Signature	<i>Sehara</i>	Date Considered	7/19/05
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+ This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/667,133
<i>(use as many sheets as necessary)</i>				Filing Date	September 19, 2003
Sheet	2	of	7	First Named Inventor	Johnson, Howard M.
				Group Art Unit	1646 (642)
				Examiner Name	SENGARASUJON, J.
				Attorney Docket Number	UF-243XDI

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
JS	R1	BAZER, F.W. et al. "Effect of Ovine Trophoblast Protein-1 (oTP-1) on Replication of Feline (FIV) and Human (HIV) Immunodeficiency Viruses" <i>Biol. Reprod.</i> , 1989, Vol. 40, Suppl. 63.			
	R2	IMAKAWA, K. et al. "Interferon-like Sequence of Ovine Trophoblast Protein Secreted by Embryonic Trophectoderm" <i>Nature</i> , 1987, pp. 377-379, Vol. 330.			
	R3	JOHNSON, H.M. et al. "How Interferons Fight Disease" <i>Sci. Am.</i> , 1994, pp. 68-75, Vol. 270, No. 5.			
	R4	SUBRAMANIAM, P.S. et al. "Differential Recognition of the Type I Interferon Receptor by Interferons τ and α is Responsible for Their Disparate Cytotoxicities" <i>Proc. Natl. Acad. Sci.</i> , 1995, pp. 12270-12274, Vol. 92.			
	R5	PONTZER, C.H. et al. "Structure/Function Studies with Interferon Tau: Evidence for Multiple Active Sites" <i>Journal of Interferon Research</i> , 1994, pp. 133-141, Vol. 14.			
	R6	DOLEN, J.G. et al. "Undetectable Interferon- α Serum Levels in a Patient with Atopic Dermatitis" <i>Journal of Interferon Cytokine Res.</i> , 1995, pp. 973-975, Vol. 15.			
	R7	SOOS, J.M. et al. "The IFN Pregancy Recognition Hormone IFN- τ Blocks Both Development and Superantigen Reactivation of Experimental Allergic Encephalomyelitis Without Associated Toxicity" <i>J Immunol.</i> , 1995, pp. 2747-2753, Vol. 155.			
	R8	LACK, G. et al. "Nebulized IFN- γ Inhibits the Development of Secondary Allergic Responses in Mice" <i>J Immunol.</i> , 1996, pp. 1432-1439, Vol. 157, No. 4.			
	R9	FINTER, N.B. et al. "The Use of Interferon- α in Virus Infections" <i>Drugs</i> , 1991, pp. 749-765, Vol. 42, No. 5.			
	R10	GRUSCHWITZ, M.S. et al. "Effects of Interferon-Alpha-2b on the Clinical Course, Inflammatory Skin Infiltrates and Peripheral Blood Lymphocytes in Patients with Severe Atopic Eczema" <i>Int. Arch. Allergy Immunol.</i> , 1993, pp. 20-30, Vol. 101.			
	R11	WHALEY, A.E. et al. "Identification and Cellular Localization of Unique Interferon mRNA from Human Placenta" <i>J. Biol. Chem.</i> , 1994, pp. 10864-10868, Vol. 269, No. 14.			
	R12	HAMELMANN, E. et al. "Requirement for CD8 $^+$ T Cells in the Development of Airway Hyperresponsiveness in a Murine Model of Airway Sensitization" <i>J. Exp. Med.</i> , 1996, pp. 1719-1729, Vol. 183.			
	R13	KAY, A.B. et al. "Eosinophils and Neutrophils" <i>British Medical Bulletin</i> , 1992, pp. 51-64, Vol. 48, No. 1.			

Examiner Signature	<i>S. Sehgal</i>	Date Considered	7/14/05
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	3	of	7	Application Number	10/667,133
				Filing Date	September 19, 2003
				First Named Inventor	Johnson, Howard M.
				Group Art Unit	1646 (647)
				Examiner Name	Schwarzeyon, J.
				Attorney Docket Number	UF-243XD1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JS	R14	BAZER, F.W. et al. "Type I Conceptus Interferons: Maternal Recognition of Pregnancy Signals and Potential Therapeutic Agents" <i>Am. J. Reprod. Immunol.</i> , 1991, pp. 19-22, Vol. 26.	
	R15	HOFSTRA, C.L. et al. "Differential Effects of Endogenous and Exogenous Interferon- γ on Immunoglobulin E, Cellular Infiltration, and Airway Responsiveness in a Murine Model of Allergic Asthma" <i>Am. J. Respir. Cell Mol. Biol.</i> , 1998, pp. 826-835, Vol. 19, No. 5.	
	R16	HAMELMANN, E. et al. "Allergen-Specific IgE and IL-5 are Essential for the Development of Airway Hyperresponsiveness" <i>Am. J. Respir. Cell Mol. Biol.</i> , 1997, pp. 674-682, Vol. 16.	
	R17	DAVIS, G.L. et al. "Treatment of Chronic Hepatitis C with Recombinant Interferon Alfa" <i>N. Engl. J. Med.</i> , 1989, pp. 1501-1506, Vol. 321, No. 22.	
	R18	QUESADA, J.R. et al. "Alpha Interferon for Induction of Remission in Hairy-Cell Leukemia" <i>N. Engl. J. Med.</i> , 1984, pp. 15-18, Vol. 310, No. 1.	
	R19	GODKIN, J.D. et al. "Purification and Properties of a Major, Low Molecular Weight Protein Released by the Trophoblast of Sheep Blastocysts at Day 13-21" <i>J. Reprod. Fert.</i> , 1982, pp. 141-150, Vol. 65.	
	R20	KASHIMA, H. et al. "Interferon Alfa-N1 (Wellferon)® in Juvenile Onset Recurrent Respiratory Papillomatosis: Results of a Randomized Study in Twelve Collaborative Institutions" <i>Laryngoscope</i> , 1988, pp. 334-340, Vol. 98, No. 3.	
	R21	MANCINO, D. et al. "Adjuvant Effects of Amorphous Silica and of Aluminium Hydroxide on IgE and IgG, Antibody Production in Different Inbred Mouse Strains" <i>Int. Archs. Allergy Appl. Immun.</i> , 1980, pp. 253-258, Vol. 61.	
	R22	REVOLTELLA, R. et al. "Preferential Production of Rabbit Reaginic Antibodies" <i>Int. Arch. Allergy</i> , 1969, pp. 282-289, Vol. 36.	
	R23	MIGUEL, N.M.R. et al. "Effect of Aluminium Hydroxide Gel on the Secondary Response in Mice" <i>Int. Archs. Allergy Appl. Immun.</i> , 1977, pp. 382-384, Vol. 54.	
	R24	BECK, L. et al. "The Polyclonal and Antigen-Specific IgE and IgG Subclass Response of Mice Injected with Ovalbumin in Alum or Complete Freund's Adjuvant" <i>Cellular Immunol.</i> , 1989, pp. 1-8, Vol. 123.	
	R25	NILSSON, K. et al. "Established Immunoglobulin Producing Myeloma (IgE) and Lymphoblastoid (IgG) Cell Lines From an IgE Myeloma Patient" <i>Clin. Exp. Immunol.</i> , 1970, pp. 477-489, Vol. 7.	

Examiner Signature	<i>Joe L</i>	Date Considered	10/19/03
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	4	of	7	Application Number	10/667,133
				Filing Date	September 19, 2003
				First Named Inventor	Johnson, Howard M.
				Group Art Unit	1646-1647.
				Examiner Name	Schovasey, J.
				Attorney Docket Number	UF-243XD1

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
JS	R26	ROTHMAN, P. et al. "Mitogen Plus Interleukin 4 Induction of C _e Transcripts in B Lymphoid Cells" <i>J. Exp. Med.</i> , 1988, pp. 2385-2389, Vol. 168.		
	R27	WEI, C.F. et al. "Isolation and Comparison of Two Molecular Species of the BAL 31 Nuclease from <i>Alteromonas espejiana</i> with Distinct Kinetic Properties" <i>J. Biol. Chem.</i> , 1983, pp. 13506-13512, Vol. 258, No. 22.		
	R28	BONNEM, E.M. et al. "Interferon- α : Current Status and Future Promise" <i>J. Biol. Response Modifiers</i> , 1984, pp. 580-598, Vol. 3, No. 6.		
	R29	LANZAVECCHIA, A. et al. "In vitro Stimulation of IgE Production at a Single Precursor Level by Human Alloreactive T Helper Clones" <i>Clin. Exp. Immunol.</i> , 1984, pp. 197-203, Vol. 55.		
	R30	WARNER, N.L. et al. "Immunoglobulin Classes in Antibody Responses in Mice I. Analysis By Biological Properties" <i>Immunology</i> , 1968, pp. 725-734, Vol. 14.		
	R31	BENOIT, P. et al. "A Monoclonal Antibody to Recombinant Human IFN- α Receptor Inhibits Biological Activity of Several Species of Human INF- α , IFN- β , and IFN- ω " <i>Journal of Immunology</i> , 1993, pp. 707-716, Vol. 150, No. 3.		
	R32	COFFMAN, R.L. et al. "B Cell Stimulatory Factor-1 Enhances the IgE Response of Lipopolysaccharide-Activated B Cells" <i>Journal of Immunology</i> , 1986, pp. 4538-4541, Vol. 136, No. 12.		
	R33	COFFMAN, R.L. et al. "A T Cell Activity That Enhances Polyclonal IgE Production and Its Inhibition by Interferon- γ " <i>Journal of Immunology</i> , 1986, pp. 949-954, Vol. 136, No. 3.		
	R34	MUJTABA, M.G. et al. "IFN- τ Suppresses Both the Autoreactive Humoral and Cellular Immune Responses and Induces Stable Remission in Mice with Chronic Experimental Allergic Encephalomyelitis" <i>Cellular Immunology</i> , 1998, pp. 94-102, Vol. 186.		
	R35	SOOS, J.M. et al. "Oral Feeding of Interferon τ Can Prevent the Acute and Chronic Relapsing Forms of Experimental Allergic Encephalomyelitis" <i>Journal of Neuroimmunology</i> 1997, pp. 43-50, Vol. 75.		
	R36	MUJTABA, M.G. et al. "CD4 T Suppressor Cells Mediate Interferon Tau Protection Against Experimental Allergic Encephalomyelitis" <i>Journal of Neuroimmunology</i> , 1997, pp. 35-42, Vol. 75.		
↓	R37	PONTZER, C.H. et al. "Antiproliferative Activity of a Pregnancy Recognition Hormone, Ovine Trophoblast Protein-1" <i>Cancer Research</i> , 1991, pp. 5304-5307, Vol. 51.		

Examiner Signature	<i>[Signature]</i>	Date Considered	7/19/05
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	5	of	7	Application Number	10/667,133
				Filing Date	September 19, 2003
				First Named Inventor	Johnson, Howard M.
				Group Art Unit	1646 1647
				Examiner Name	Sehovadev, M.J.
				Attorney Docket Number	UF-243XD1

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JS	R38	MUJTABA, M.G. et al. "IFN- τ Inhibits IgE Production in a Murine Model of Allergy and in an IgE-Producing Human Myleoma Cell Line" <i>J Allergy Clin Immunol</i> , 1999, pp. 1037-1044, Vol. 104, No. 5.
	R39	MUJTABA, M.G. et al. "IFN- τ Inhibits IgE Production in a Murine Model of Allergy and in an IgE-Producing Human Myleoma Cell Line" <i>FASEB Journal</i> , 1999, Vol. 13, No. 4, A337, XP-000943709, abstract only.
	R40	KIMATA, H. et al. "Interferon-alpha Treatment for Severe Atopic Dermatitis" <i>Allergy</i> , 1995, pp. 837-840, Vol. 50.
	R41	SAVELKOUL, H.F.J. et al. "Regulation of In Vivo IgE Responses by IL-4 and IFN- τ " <i>Journal of Cellular Biochemistry Suppl.</i> , 1993, p. 118, XP-000943455, abstract only.
	R42	CHEN, Y.L. et al. "Mosquito Allergy: A Mouse Model for Study of Antigen-Specific IgE and IgG Subclass Responses, Lymphocyte Proliferation, and IL-4 and IFN- τ Production" <i>Journal of Allergy and Clinical Immunology</i> , 1998, Vol. 101, Supp. 158.
	R43	WANG, H. et al. "Role of Interleukin-4 and Interferon- τ in Pathogenesis of Asthma" <i>Chemical Abstracts</i> , 1999, Vol. 130, No. 13, p. 529, Columbus, Ohio, US, Abstract No. 166970u
	R44	DUSHEIKO, G. M. et al. "Recombinant Leucocyte Interferon Treatment of Chronic Hepatitis B" <i>Journal of Hepatology</i> , 1986, pp. S199-S207, Vol. 3, Supp. 2, Elsevier Science Publishers Biomedical Division.
	R45	KHAN, O. A. et al. "Immunomodulating Functions of Recombinant Ovine Interferon Tau: Potential for Therapy in Multiple Sclerosis and Autoimmune Disorders" <i>Multiple Sclerosis</i> , 1998, pp. 63-69, Vol. 4, Stockton Press.
	R46	KIMATA, H. et al. "Interferon-Alpha Treatment for Severe Atopic Dermatitis" <i>Allergy</i> , 1995, pp. 837-840, Vol. 50.
	R47	NOH, G. W. and LEE, K. Y. "Blood Eosinophils and Serum IgE as Predictors for Prognosis of Interferon-gamma Therapy in Atopic Dermatitis" <i>Allergy</i> , 1998, pp. 1202-1207, Vol. 53.
	R48	PENE et al. <i>Proc. Natl. Acad. Sci. USA</i> , 1988, pp. 6880-6884, Vol. 85, No. 18.
↓	R49	OLDHAM, ROBERT K. "Biologicals for Cancer Treatment: Interferons" <i>Hospital Practice</i> , 1985, pp. 71-91, Vol. 20, No. 12,

Examiner Signature	<i>George L. S.</i>	Date Considered	7/19/05
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(use as many sheets as necessary)				Filing Date	September 19, 2003
Sheet	6	of	7	First Named Inventor	Johnson, Howard M.
				Group Art Unit	1646 1647
				Examiner Name	Sehgal, S.
				Attorney Docket Number	UF-243XD1

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JS	R50	HEEKE, GINO VAN et al. "High Yield Expression and Secretion of the Ovine Pregnancy Recognition Hormone Interferon -r by <i>Pichia pastoris</i> ", <i>Journal of Interferon and Cytokine Research</i> , 1996, pp. 119-126, Vol. 16.			
	R51	SOOS, JEANNE M. et al. "Type I Interferon Inhibition of Superantigen Stimulation: Implications for Treatment of Superantigen-Associated Disease", <i>Journal of Interferon and Cytokine Research</i> , 1995, pp. 39-45, Vol. 15.			
	R52	SUBRAMANIAM, P. et al. "Type I Interferon Induction of the Cdk-inhibitor p21 ^{WAF1} is Accompanied by Ordered G1 Arrest, Differentiation and Apoptosis of the Daudi B-cell Line", <i>Oncogene</i> , 1998, pp. 1885-1890, Vol. 16, Stockton Press.			
	R53	MCCONKEY, D. J. et al. "Signal Transduction Pathways in Apoptosis", <i>Stem Cells</i> , 1996, pp. 619-631, Vol. 14, AlphaMed Press.			
	R54	SOOS, J. M. et al. "Cutting Edge: Oral Type I IFN- τ Promotes a Th2 Bias and Enhances Suppression of Autoimmune Encephalomyelitis by Oral Glatiramer Acetate", <i>The Journal of Immunology</i> , 2002, pp. 2231-2235, Vol. 169.			
	R55	GONGORA, R. et al. "Stat-1 Is Not Essential for Inhibition of B Lymphopoiesis by Type I IFNs" <i>The Journal of Immunology</i> , 2002, pp. 2362-2366, Vol. 165.			
	R56	BAZER, F.W. et al. "Type I Conceptus Interferons: Maternal Recognition of Pregnancy Signals and Potential Therapeutic Agents", <i>American Journal of Reproductive Immunology</i> , 1991, pp. 19-22.			
	R57	YANAI, Y. et al. "The Anti-Tumor Activities of Interferon (IFN)- α in Chronic Myelogenous Leukaemia (CML)-Derived Cell Lines Depends on the IFN- α Subtypes", <i>Cancer Letters</i> , 2002, pp. 173-179, Vol. 185.			
	R58	BARNES, B. et al. "On the Role of IRF in Host Defense", <i>Journal of Interferon and Cytokine Research</i> , 2002, pp. 59-71, Vol. 22.			
	R59	BRIERLEY, M. M. et al. "IFN- α/β Receptor Interactions to Biologic Outcomes: Understanding the Circuitry", <i>Journal of Interferon and Cytokine Research</i> , 2002, pp. 835-845, Vol. 22.			
	R60	KOTENKO, S. V. et al. "IFN- α s Mediate Antiviral Protection Through a Distinct Class II Cytokine Receptor Complex", <i>Nature Immunology</i> , December 16, 2002, pp. 69-77, Vol. 4, No. 1.			
↓	R61	FASLER-KAN, E. et al. "Interferon- α Activates Signal Transducers and Activators of Transcription 5 and 6 in Daudi Cells", <i>Eur. J. Biochem.</i> , 1998, pp. 514-519, Vol. 254.			

Examiner Signature	<i>Joe L</i>	Date Considered	7/19/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/667,133
(use as many sheets as necessary)				Filing Date	September 19, 2003
Sheet	7	of	7	First Named Inventor	Johnson, Howard M.
				Group Art Unit	1646 1647
				Examiner Name	Sehovacevich
				Attorney Docket Number	UF-243XD1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SS	R62	ROGGE, L. et al. "The Role of Stat4 in Species-Specific Regulation of Th Cell Development by Type I IFNs", <i>The Journal of Immunology</i> , 1998, pp. 6567-6574, Vol. 161.	✓
SS	R63	RAMANA, C. V. et al. "Stat1-Dependent and -Independent Pathways in IFN- γ -Dependent Signaling", <i>Trends in Immunology</i> , February 2002, pp. 96-101, Vol. 23, No. 2.	✓
SS	R64	LIN, SHIAW-YIH et al. "Nuclear Localization of EGF Receptor and its Potential New Role as a Transcription Factor", <i>Nature Cell Biology</i> , September 2001, pp. 802-808, Vol. 3.	✓
	R65		
	R66		
	R67		
	R68		
	R69		
	R70		
	R71		
	R72		
	R73		
	R74		

Examiner Signature	<i>Joe C</i>	Date Considered	7/19/03
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